- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - **A. Technology Operation and Concepts**: Students demonstrate a sound understanding of technology concepts, systems and operations.

GRADES K-2

- How any device "works"—switches, navigation, interface with other devices
- Familiarity with primary functions of applications and other technology resources

Focus for instruction:

Creating opportunities for students to use digital devices in the course of instruction and play, and encouraging their conscious awareness of how devices and applications work to perform tasks for humans.

Rubric Standard 8.1A K-2							
STRONG	MODERATE	PARTIAL					
WITH OCCASIONAL ASSISTANCE, THE STUDENT	WITH CONSISTENT/FREQUENT/REPEATED ASSISTANCE, THE STUDENT	WITH SUBSTANTIAL AND SUSTAINED ASSISTANCE, THE STUDENT					
 is able to input information into a digital application can access and independently use a variety of digital applications (at least 3 applications that are designed to perform different functions) in the classroom 	 is able to input information into a digital application can access and use a digital application in the classroom 	 is able to input information into a digital application can access and, with support, use a digital application in the classroom 					

	Standard 8.1 A K-2				
Crit	erion: Ability to	o input inform	nation into a c	ligital applica	ation
OBSERVED BEHAVIOR/PERFORMANCE Independently Occasional Assistance Assistance Assistance					
Is able to input information into a digital application					
Criterion: Ability to access and use digital applications					
Can access and use a digital application in the classroom					
Can access and independently use a variety of digital applications (at least 3 applications that are designed to perform different functions) in the classroom					

- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - **A. Technology Operation and Concepts**: Students demonstrate a sound understanding of technology concepts, systems and operations.

GRADES 3-5

- Interactions among tools and resources: for example, devices + peripherals; application + application
- How to access information in a digital environment
- How to create and use data for particular purposes

Focus for instruction:

Integrating the use of digital tools and resources in subject matter learning and assignments; giving students opportunities to discover the resources available in the digital world; teaching students how to research and create in a digital environment.

	in the digital world, teaching students i	iow to research and create in a digital env		
		Standard 8.1 A	Rubric 3-5	
F	DISTINGUISHED	STRONG	MODERATE	PARTIAL
Ī	WITH COMPLETE	WITH ONLY OCCASIONAL	WITH CONSISTENT, REPEATED,	WITH SUBSTANTIAL AND
	INDEPENDENCE, THE STUDENT	ASSISTANCE, THE STUDENT CAN	FREQUENT ASSISTANCE, THE	SUSTAINED ASSISTANCE, THE
	CAN	 use digital tools to access 	STUDENT CAN	STUDENT CAN
ſ	 use digital tools to access information to solve different 	information to solve different kinds of problems including the creation	 use digital tools to access information to solve different 	sometimes use digital tools to
	kinds of problems including the	of databases and use of simple	kinds of problems, including the	access information
	creation of databases and use of	queries to obtain information	exploration of databases and	 sometimes complete simple
	simple queries to obtain	choose and use appropriate and	use of simple queries to obtain	assignments in a digital
	informationchoose and use appropriate and	increasingly sophisticated digital tools (databases, graphic	information	environment [writing assignment, report, presentation]
	increasingly sophisticated digital	organizers, spreadsheets and	 complete simple assignments in a digital environment [writing 	sometimes choose and use the
	tools (databases, graphic	integration across digital	assignment, report, presentation]	appropriate tool[s] for an
	organizers, spreadsheets and	applications) to complete an	and include in the final product	assigned task.
	integration across digital	assignment that requires analysis,	graphics, symbols and/or	
	applications) to complete an assignment that requires	evaluation and synthesis as part of the final report or presentation.	picturesoften choose and use the	
	analysis, evaluation and	 choose appropriate digital tools to 	appropriate tool[s] to complete	
	synthesis as part of the final	complete any assigned task	assigned tasks from an array	
	report or presentation.	completely and efficiently	determined by the teacher.	
•	choose appropriate digital tools to			
	complete any assigned task			
L	completely and efficiently.			

		Standard 8.1	A 3-5		
Criterion:	Ability to use dig	gital tools to ac	cess informat	ion to solve pro	blems
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Can use digital tools to access information					
Can use digital tools to access information to solve different kinds of problems, including the exploration of databases and use of simple queries to obtain information					
Can use digital tools to access information to solve different kinds of problems including the creation of databases and use of simple queries to obtain information					
Criteri	on: Ability to c	omplete assign	nments in a di	gital environme	nt
OBSERVED BEHAVIOR/ PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Can complete simple assignments in a digital environment [writing assignment, report, presentation					
Can complete simple assignments in a digital environment [writing assignment, report, presentation] and include in the final product graphics, symbols and/or pictures					
Can choose and use appropriate and increasingly sophisticated digital tools (databases, graphic organizers, spreadsheets and integration across digital applications) to complete an assignment that requires analysis, evaluation and synthesis as part of the final report or presentation					

Criterion: Ability to choose and use appropriate tools to complete a given assignment					
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Can sometimes choose and use the appropriate tool[s] for an assigned task.					
Can often choose and use the appropriate tool[s] to complete assigned tasks from an array determined by the teacher.					
Can choose appropriate digital tools to complete any assigned task completely and efficiently					

8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.

A. Technology Operation and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations.

GRADES 6-8

• Create, format, manipulate, analyze and/or interpret data for publication or reporting in multiple digital applications

stated problems or issues.

- Explore a real-world problem using digital tools to develop an understanding of the issue
- Create or use a digital simulation to explore a real-world problem and possible alternative solutions

Focus for instruction:

problems or issues.

Integrating online digital resources and tools with subject matter research and reporting; introducing students to the power of digital simulation to explore issues and problems

issues and problems			
	Rubric Standard 8.1	A 6-8	
DISTINGUISHED	STRONG	MODERATE	PARTIAL
WITH COMPLETE INDEPENDENCE,	WITH ONLY OCCASIONAL	WITH CONSISTENT,	WITH SUBSTANTIAL AND
THE STUDENT CAN	ASSISTANCE, THE STUDENT CAN	FREQUENT, REPEATED	SUSTAINED ASSISTANCE,
 demonstrate the ability to use digital 	 demonstrate the ability to use digital 	ASSISTANCE, STUDENT CAN	THE STUDENT
tools to explore a real-world problem	tools to explore a real-world problem	 demonstrate the ability to 	 sometimes demonstrates the
(chosen and articulated by the	(chosen and articulated by the	use digital tools to explore a	ability to use digital tools to
student, approved by the teacher), in	student, approved by the teacher), in	well-defined real-world	explore a well-defined real-
order to develop an understanding of	order to develop an understanding	problem from a list supplied	world problem from a list
an issue.	of an issue.	by the teacher, in order to	supplied by the teacher, in
use a digital simulation to explore a	use a digital simulation to explore a	develop an understanding of	order to develop an
current and significant real-world	current and significant real-world	an issue.	understanding of an issue.
problem with multiple alternative solutions	problem with multiple alternative solutions	use a digital simulation to use a well defined real	struggles to use a digital simulation to evaluate a wall
		explore a well-defined real- world problem with a limited	simulation to explore a well- defined real-world problem
create and format data for publication and reporting using more than one	 create and format data for publication and reporting using more 	number of appropriate	with a limited number of
digital application.	than one digital application.	alternative solutions.	appropriate alternative
 demonstrate ability to manipulate, 	 demonstrate ability to manipulate, 	create and format data for	solutions.
analyze and/or interpret data and	analyze and/or interpret data and	publication and reporting.	struggles to create and
report the results, including an	report the results, including an	demonstrate ability to	format data for publication
explanation for peers of the analysis	explanation for peers of the analysis	manipulate, analyze and/or	and reporting.
process the digital tools enabled.	process the digital tools enabled.	interpret data for particular	sometimes demonstrates
Examples might be a set of queries of	Examples might be a set of queries	purposes when the purpose	ability to manipulate, analyze
existing databases directed at the	of existing databases directed at the	and the data sources are	and/or interpret data for
solution or exploration of a particular	solution or exploration of a particular	provided by the teacher.	particular purposes when the
problem, creating a new database and	problem, creating a new database		purpose and the data
appropriate queries to explore stated	and appropriate queries to explore		sources are provided by the

teacher.

		Standard 8.1	A 6-8		
Criterio	n: Ability to use	digital tools	o explore a re	eal-world probler	n
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Ability to use digital tools to explore a well-defined real-world problem from a list supplied by the teacher, in order to develop an understanding of an issue.					
Demonstrate the ability to use digital tools to explore a real-world problem (chosen and articulated by the student, approved by the teacher), in order to develop an understanding of an issue.					
Criterion: Ability to us	se a digital simul	lation to explo	re real-world	problems with n	nultiple solutions
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Can use a digital simulation to explore a well-defined real-world problem with a limited number of appropriate alternative solutions.					
Use a digital simulation to explore a current and significant real-world problem with multiple alternative solutions					
Criterion: Ability to create and format data for presentation and reporting					
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Can create and format data for publication and reporting					
Can create and format data for publication and reporting using more than one digital application					

Criterion: Ability to manipulate, analyze and/or interpret data for particular purposes					
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Demonstrate ability to manipulate, analyze and/or interpret data for particular purposes when the purpose and the data sources are provided by the teacher					
Demonstrate ability to manipulate, analyze and/or interpret data and report the results, including an explanation for peers of the analysis process the digital tools enabled					

- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - **A. Technology Operation and Concepts**: Students demonstrate a sound understanding of technology concepts, systems and operations.

GRADES 9-12

- Create, format, manipulate, analyze and/or interpret data for publication or reporting in multiple digital applications
- Explore a real-world problem using digital tools to develop an understanding of the issue
- Create or use a digital simulation to explore a real-world problem and possible alternative solutions

Focus for instruction:

Integrating online digital resources and tools with subject matter research and reporting; introducing students to the power of digital simulation to explore issues and problems

 create a digital portfolio containing personal , academic and career-focused entries, using a variety of digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two 	STRONG WITH COMPLETE INDEPENDENCE, THE STUDENT CAN	issues and problems			
WITH COMPLETE INDEPENDENCE, THE STUDENT CAN create a digital portfolio containing personal , academic and career-focused entries, using a variety of digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two WITH COMPLETE INDEPENDENCE, THE STUDENT CAN WITH CONSISTENT, FREQUENT, REPEATED ASSISTANCE, STUDENT CAN create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two WITH CONSISTENT, FREQUENT, REPEATED ASSISTANCE, STUDENT CAN create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professional or construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from a	WITH COMPLETE INDEPENDENCE, THE STUDENT CAN • create a digital portfolio containing personal, academic and career-focused entries, using a variety of digital tools • use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals • construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two tables, and describe the process and explain the report results. WITH CONPLETE INDEPENDENCE, THE STUDENT CAN ASSISTANCE, THE STUDENT CAN • create a digital portfolio containing personal and career-focused entries, using a variety of digital tools • use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals • use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals • construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two tables, and describe the process and explain the report results.		Rubric Standard	8.1A 9-12	
THE STUDENT CAN create a digital portfolio containing personal , academic and career-focused entries, using a variety of digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two ASSISTANCE, THE STUDENT CAN create a digital portfolio containing personal and career-focused entries, using a variety of digital poplications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two ASSISTANCE, THE STUDENT CAN create a digital portfolio containing personal and career-focused entries, using a variety of digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professionals or comstruct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a digital portfolio containing personal and academic entries using at least TWO digital tools construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function	 THE STUDENT CAN create a digital portfolio containing personal, academic and career-focused entries, using a variety of digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two tables, and describe the process and explain the report results. ASSISTANCE, THE STUDENT CAN create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professionals or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a digital portfolio containing personal and academic entries using a tleast TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professionals or construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a digital portfolio containing personal and academic entries using a treat TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a report from a relational database, consistin	DISTINGUISHED	STRONG	MODERATE	PARTIAL
 create a digital portfolio containing personal , academic and career-focused entries, using a variety of digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two 	 create a digital portfolio containing personal , academic and career-focused entries, using a variety of digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two tables, and describe the process and explain the report results. create a digital portfolio containing personal and career-focused entries, using a variety of digital tools create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a digital portfolio containing personal and academic entries using a tleast TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a digital portfolio containing personal and academic entries using a tleast TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a report from a relational data from all of t	WITH COMPLETE INDEPENDENCE,	WITH ONLY OCCASIONAL	WITH CONSISTENT, FREQUENT,	WITH SUSTAINED AND
personal , academic and career- focused entries, using a variety of digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a report from a relational database, consisting of at least two	personal , academic and career-focused entries, using a variety of digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a digital portfolio containing personal and academic entries using at least TWO digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a report from a relational database, consisting of at least two tables, and describe the process and explain the report results. personal , academic and career-focused entries, using a variety of digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professional acu	THE STUDENT CAN	ASSISTANCE, THE STUDENT CAN	REPEATED ASSISTANCE,	SUBSTANTIAL ASSISTANCE,
and explain the report results. and explain the report results. the worksheets to create a	results report	create a digital portfolio containing personal, academic and career-focused entries, using a variety of digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a report from a relational database, consisting of at least two tables, and describe the process	 create a digital portfolio containing personal, academic and career-focused entries, using a variety of digital tools use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report create a report from a relational database, consisting of at least two tables, and describe the process 	 STUDENT CAN create a digital portfolio containing personal and academic entries using at least TWO digital tools use at least ONE digital application to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets 	 can create a digital portfolio containing personal and academic entries using at least TWO digital tools struggles to use at least ONE digital application to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals struggles to construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a

		Standard 8.	1 A 9-12		
	Criterion:	Ability to cre	ate a digital p	ortfolio	
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Create a digital portfolio containing personal and academic entries using at least TWO digital tools					
Create a digital portfolio containing personal , academic and career-focused entries, using a variety of digital tools					
Criterion: Ability to	use digital app	lications to pr	oduce a profe	ssional-quali	ty artifact or report
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Use at least ONE digital application to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals					
Use multiple digital applications to produce an artifact or report that is designed for a professional or commercial audience and reviewed by peers or professionals					

		Standard 8.	1 A 9-12		
Criterion: Ability to cons	struct a spreads	heet workboo	k and use sp	readsheet fu	nctions to create a report
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Construct a spreadsheet workbook with multiple tabs, and use a mathematical or logical function, a chart[s] and data from all of the worksheets to create a results report Create a digital portfolio containing personal, academic and career-focused entries, using a variety of digital tools					
Criteri	on: Ability to u	se and/or crea	ate and use a	relational da	tabase
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Create a report from a relational database, consisting of at least two tables, and describe the process and explain the report results.					

- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - C. Communication and Collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.

GRADES K-2

- Students use technology tools, including social media, to collaboratively engage in learning activities
 - that involve multiple different media formats
 - with students in other classes, schools, or geographic locations.

Focus for instruction:

Creating opportunities for students to collaborate to accomplish a common goal using digital tools; introducing students to different media formats and their uses

Rubric Standard 8.1C K-2							
2	1	0					
 WITH CONSISTENT, FREQUENT, REPEATED ASSISTANCE STUDENT CAN Participate in collaborative digital learning activities with other students across geographies 	WITH SUBSTANTIAL AND SUSTAINED ASSISTANCE STUDENT CAN Participate in collaborative digital learning activities with other students across geographies	Not Yet Observed: Student is unable to participate in collaborative digital learning activities even with substantial and sustained assistance					

OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Frequent Assistance	Sustained Assistance	NOTES
Student can participate in collaborative digital learning activities with other students across geographies			

8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.

C Communication and Collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.

GRADES 3-5

- Using digital tools and online resources, students interact with other learners from a broad variety of cultures and geographies
 - to investigate and evaluate approaches to a world-wide issue,
 - and present possible solutions to many audiences in multiple media and formats

Focus of instruction:

Creating opportunities for students to collaborate with other learners outside the classroom to investigate and report on an issue using digital tools

Rubric Standard 8. 1C 3-5								
2	1	0						
 WITH CONSISTENT, FREQUENT, REPEATED ASSISTANCE STUDENT CAN Participate in collaborative digital learning activities with other students across geographies, to investigate and evaluate an issue Present findings to many audiences in multiple media and formats 	WITH SUBSTANTIAL AND SUSTAINED ASSISTANCE STUDENT CAN Participate in collaborative digital learning activities with other students across geographies, to investigate and evaluate an issue Present findings to many audiences in multiple media and formats	Student is unable to participate in collaborative digital learning activities or present findings even with substantial and sustained assistance						

OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Frequent Assistance	Sustained Assistance	NOTES
Student can participate in collaborative digital learning activities with other students across geographies, to investigate and evaluate an issue			
Student can present findings to many audiences in multiple media and formats			

8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.

C Communication and Collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.

GRADES 6-8

- Using digital tools and online resources, develop and publish the findings from collaborative work with other learners
 - from a broad variety of cultures and geographies
 - to investigate and evaluate approaches to a world-wide issue,
 - and present possible solutions to many audiences in multiple media and formats

Focus for instruction:

Creating opportunities for students to collaborate with other learners outside the classroom to investigate an issue and develop and publish a formal report for multiple audiences using digital tools

To multiple dudichoed doing digital tools									
Rubric Standard 8.1 C 6-8									
2	1	0							
WITH COMPLETE INDEPENDENCE THE	WITH CONSISTENT/FREQUENT/REPEATED	WITH SUBSTANTIAL AND SUSTAINED							
STUDENT CAN	ASSISTANCE, THE STUDENT CAN	ASSISTANCE THE STUDENT							
 participate in collaborative digital learning activities with other students across geographies, to investigate and evaluate an issue present findings to multiple audiences in multiple media and formats develop an innovative solution to a realworld problem or issue and present these ideas for feedback through social media or in an online community 	 participate in collaborative digital learning activities with other students across geographies, to investigate and evaluate an issue present findings to multiple audiences in multiple media and formats 	 can sometimes participate in collaborative digital learning activities with other students across geographies, to investigate and evaluate an issue struggles to present findings to multiple audiences in multiple media and formats 							

	Standard 8.1C 6-8							
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Complete Independence	Frequent Assistance	Sustained Assistance	NOTES				
Student can participate in collaborative digital learning activities with other students across geographies, to investigate and evaluate an issue Student can present findings to multiple audiences in multiple media and formats								
Student can develop an innovative solution to a real-world problem or issue and present these ideas for feedback through social media or in an online community								

8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.

C. Communication and Collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.

GRADES 9-12

- Using digital tools and online resources, develop and publish the findings from collaborative work with other learners
 - from a broad variety of cultures and geographies
 - to investigate and evaluate approaches to a world-wide issue,
 - and present possible solutions to many audiences in multiple media and formats

Focus for instruction:

Creating opportunities for students to collaborate with other learners outside the classroom to investigate an issue and develop and publish a formal report for multiple audiences using digital tools

	Rubric Standard 8.1 C 9-12							
3 2		1	0					
WITH COMPLETE INDEPENDENCE THE STUDENT CAN	WITH CONSISTENT, FREQUENT, REPEATED ASSISTANCE STUDENT CAN	WITH SUBSTANTIAL AND SUSTAINED ASSISTANCE, THE STUDENT CAN	Even with substantial and sustained assistance, the student is unable to participate in collaborative digital learning					
 participate in collaborative digital learning activities with other students and experts across geographies, to investigate and evaluate an issue collaboratively develop an innovative solution to a realworld problem publish findings to multiple audiences in multiple media and formats. 	 participate in collaborative digital learning activities with other students and experts across geographies, to investigate and evaluate an issue collaboratively develop an innovative solution to a realworld problem publish findings to multiple audiences in multiple media and formats. 	 participate in collaborative digital learning activities with other students and experts across geographies, to investigate and evaluate an issue collaboratively develop an innovative solution to a realworld problem publish findings to multiple audiences in multiple media and formats. 	activities or publish findings					

	Standard 8.1C 9-12							
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Complete Independence	Frequent Assistance	Sustained Assistance	NOTES				
Student can participate in collaborative digital learning activities with other students across geographies, to investigate and evaluate an issue Student can collaboratively develop an innovative solution to a real-world								
problem Student can publish findings to multiple audiences in multiple media and formats.								

- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - **D. Digital Citizenship**: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.

GRADES K-2

- Integrate the concept of "ownership" into instructional activities:
 - Books, films, pictures, songs, games, digital applications—all have owners, and we use them in school according to certain rules
 - People may create something and then decide to share it with others—but the owner or creator gets to make the sharing decisions

Focus for Instruction:

Introducing students to the idea of 'ownership' and developing their understanding, over time, of personal ownership and the rules that protect everyone's rights to their own property

This rubric defines the level of understanding of these abstract and complex topics by the end of second grade. Teachers will need to repeatedly integrate the concept of 'ownership' and legal rights to intellectual property—something I wrote or created—as they teach and expose children to books, music, games, all kinds of digital applications over the course of this 3-year grade band. For this reason, the rubric below is presented as a checklist, with important concepts and integrations of those concepts presented in ascending order of difficulty and abstraction

	Consistent	Partial	Not yet
	understanding	understanding	observed
Ownership: These are all examples of creations that are 'owned' by someone or some group:			
 Books and other print media 			
■ Songs			
■ Games			
■ Toys			
■ Art			
Movies			
■ Videos			
 Your own school work 			
Legal rights			
 The legal system protects owners 			
Sharing			
An owner gets to decide whether or not to share something he or she owns			
Creating			
The owner of something is not <u>necessarily</u> its creator			
Sometimes both the creator or someone else SHARE ownership rights			

- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - **D. Digital Citizenship**: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.

GRADES 3-5

- Include in all appropriate instructional activities reminders to students of the following:
 - People create and own their original work, and we have rules about sharing that work that ensures that the original owner/creator **gets the credit for his/her work**
 - Users of any resource must know how to figure out what rules apply to the use of the resource, from the perspective of ownership. Students must be reminded of the importance of considerations of online safety, online security, and ethical decision-making in using any digital tools for personal or school purposes.

Focus for Instruction:

Instruction in and reinforcement of the concept of 'ownership' and the consequent rules about using or referring to anything that is owned by another person, including things that are not necessarily visible. Instruction in and reinforcement of the standards for online safety, security and ethics.

Į	son, including things that are not necessarily visible. Instruction in and reinforcement of the standards for online safety, security and ethics.								
		Rubric Standard 8.1 D 3-5							
DISTINGUISHED STRONG MODERATE PART									
WITH COMPLETE INDEPENDENCE, THE STUDENT CAN		WITH ONLY OCCASIONAL ASSISTANCE, THE STUDENT CAN	WITH CONSISTENT, FREQUENT, REPEATED ASSISTANCE THE STUDENT CAN	WITH SUBSTANTIAL AND SUSTAINED ASSISTANCE, THE STUDENT CAN					
	 demonstrate an accurate understanding of the rules regarding copyright: citation, identification, quotation, etc. demonstrate compliance with the rules of privacy and ownership that govern cyber communication, including in social media demonstrate appropriate behavior related to digital environments: security, ethics, safety, bullying 	 demonstrate an accurate understanding of the rules regarding copyright: citation, identification, quotation, etc. demonstrate compliance with the rules of privacy and ownership that govern cyber communication, including in social media demonstrate appropriate behavior related to digital environments: security, ethics, safety, bullying 	 usually demonstrate an accurate understanding of the rules regarding copyright: citation, identification, quotation, etc. usually demonstrate compliance with the rules of privacy and ownership that govern cyber communication, including in social media usually demonstrate appropriate behavior related to digital environments: security, ethics, safety, bullying 	 sometimes demonstrate an accurate understanding of the rules regarding copyright: citation, identification, quotation, etc. sometimes demonstrate compliance with the rules of privacy and ownership that govern cyber communication, including in social media sometimes demonstrate appropriate behavior related to digital environments: security, ethics, safety, bullying 					

Standard 8.1 D 3-5								
Criterion: Accurate understanding of the rules of copyright								
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES			
Demonstrates accurate understanding of rules of copyright, i.e., citation,	Usually	Usually	Usually	Usually				
identification, quotation, etc.	Always	Always	Always	Always				
Criterion: Compliance wit	h rules of priva	cy and owner	ship in cyber	communicat	tion, including social media			
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES			
Demonstrates compliance with rules of privacy and ownership that govern cyber	Usually	Usually	Usually	Usually				
communication, including social media	Always	Always	Always	Always				
Crite	erion: Appropr	iate behavior	related to dig	ital environn	nents			
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES			
Demonstrates appropriate behavior related to digital environments: security, ethics,	Usually	Usually	Usually	Usually				
safety, bullying	Always	Always	Always	Always				

- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - **D. Digital Citizenship**: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.

GRADES 6-8

- Students are expected to
 - Apply appropriate online behaviors in regard to online bullying, safety, security and ethical behaviors
 - Demonstrate an understanding of the appropriate uses and the consequences of misuse of social media
- In all learning activities and products, students must demonstrate an understanding of
 - Appropriate digital citation
 - Fair use and Creative Commons
 - Ability to assess the credibility and accuracy of digital content
- Include in all appropriate instructional activities reminders to students of the following:
 - People create and own their original work, and we have rules about sharing that work that ensures that the original owner/creator gets the credit for his/her work
 - Users of any resource must know how to figure out what rules apply to the use of the resource, from the perspective of ownership. Students must be reminded of the importance of considerations of online safety, online security, and ethical decision-making in using any digital tools for personal or school purposes.

Focus for Instruction:

Instruction in and reinforcement of the concept of 'ownership' and the consequent rules about using or referring to anything that is owned by another person, including things that are not necessarily visible. Instruction in and reinforcement of the standards for online safety, security and ethics, particularly in regard to social media.

	Rubric Standard 8.1 D 6-8								
DISTINGUISHED	STRONG	MODERATE	PARTIAL						
WITH COMPLETE INDEPENDENCE, THE STUDENT CAN WITH ONLY OCCASIONAL ASSISTANCE, THE STUDENT CAN		WITH CONSISTENT, FREQUENT, REPEATED ASSISTANCE STUDENT CAN	WITH SUBSTANTIAL AND SUSTAINED ASSISTANCE, THE STUDENT CAN						
 demonstrate compliance with appropriate digital citation demonstrate understanding of fair use and creative commons can differentiate the credibility and accuracy of different digital content 	 demonstrate compliance with appropriate digital citation demonstrate understanding of fair use and creative commons can differentiate the credibility and accuracy of different digital content 	usually demonstrate compliance with appropriate digital citation usually demonstrate understanding of fair use and creative commons usually can differentiate the credibility and accuracy of different digital content	sometimes demonstrate compliance with appropriate digital citation sometimes demonstrate understanding of fair use and creative commons sometimes can differentiate the credibility and accuracy of different digital content						

		Standard 8	3.1 D 6-8		
	Criterion: Ac	curate unders	tanding of di	gital citation	
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Demonstrates compliance with appropriate digital citation	Usually	Usually	Usually	Usually	
3	Always	Always	Always	Always	
Criterio	on: Accurate u	nderstanding	of fair use an	d creative co	ommons
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Demonstrates understanding of fair use and creative commons	Usually	Usually	Usually	Usually	
	Always	Always	Always	Always	
Criterion: A	Ability to differe	entiate the cre	dibility and a	ccuracy of di	gital content
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Demonstrates ability to differentiate the degree of credibility and accuracy of	Usually	Usually	Usually	Usually	
different digital content	Always	Always	Always	Always	

- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - **D. Digital Citizenship**: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.

GRADES 9-12

- Research and define own personal digital footprint
 - Identify the impact of all aspects of the footprint
 - Evaluate the potential consequences of unauthorized access to personal digital information and the unauthorized dissemination of such information
- Complete research-based digital projects that
 - Demonstrate understanding of comparative global policies on filtering and censorship
 - Produce an analysis of the capabilities and limitations of digital resources AND their potential to meet personal, social, lifelong learning and career needs

Focus for Instruction:

Creating the opportunity for students to understand their own digital footprints and their potential consequences; requiring student to complete research-based digital projects that will result in their awareness of multiple perspectives on filtering and censorship and projects that will require them to analyze and evaluate strengths and weaknesses of digital resources in light of their own needs

Rubric Standard 8.1 D 9-12						
DISTINGUISHED	STRONG	MODERATE	PARTIAL			
 WITH COMPLETE INDEPENDENCE, THE STUDENT CAN demonstrate compliance with appropriate digital citation demonstrate understanding of fair use and creative commons differentiate the credibility and accuracy of different digital content demonstrate substantial understanding of the consequences of unauthorized electronic access demonstrate substantial understanding of their own digital footprint, especially in social media applications analyze the capabilities and limitations of multiple current or emerging technology resources and assess their potential to address personal, social lifelong learning, and career needs. 	 WITH ONLY OCCASIONAL ASSISTANCE, THE STUDENT CAN demonstrate compliance with appropriate digital citation demonstrate understanding of fair use and creative commons differentiate the credibility and accuracy of different digital content substantial understanding of the consequences of unauthorized electronic access demonstrate substantial understanding of their own digital footprint, especially in social media applications analyze the capabilities and limitations of multiple current or emerging technology resources and assess their potential to address personal, social lifelong learning, and career needs. 	 WITH CONSISTENT, FREQUENT, REPEATED ASSISTANCE STUDENT CAN usually demonstrate compliance with appropriate digital citation usually demonstrate understanding of fair use and creative commons usually differentiate the credibility and accuracy of different digital content demonstrate some understanding of the consequences of unauthorized electronic access demonstrate some understanding of their own digital footprint, especially in social media applications analyze the capabilities and limitations of at least one current or emerging technology resources and assess its potential to address personal, social lifelong learning, and career needs. 	 WITH SUBSTANTIAL AND SUSTAINED ASSISTANCE, THE STUDENT sometimes demonstrates compliance with appropriate digital citation sometimes demonstrates understanding of fair use and creative commons can sometimes differentiate the credibility and accuracy of different digital content demonstrates some understanding of the consequences of unauthorized electronic access demonstrates some understanding of their own digital footprint, especially in social media applications struggles to analyze the capabilities and limitations of at least one current or emerging technology resources and assess its potential to address personal, social lifelong learning, and career needs 			

		Standard 8.	1 D 9-12			
Criterion: Accurate understanding of digital citation						
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES	
Demonstrates compliance with appropriate digital citation	Usually	Usually	Usually	Usually		
	Always	Always	Always	Always		
Criterio	on: Accurate u	nderstanding	of fair use an	d creative co	ommons	
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES	
Demonstrates understanding of fair use and creative commons	Usually	Usually	Usually	Usually		
	Always	Always	Always	Always		
Criterion: A	Ability to differe	ntiate the cre	dibility and a	ccuracy of di	gital content	
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES	
Demonstrates ability to differentiate the degree of credibility and accuracy of	Usually	Usually	Usually	Usually		
different digital content	Always	Always	Always	Always		
Criterion: U	Jnderstanding (of consequen	ces of unauth	horized electi	ronic access	
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES	
Demonstrates understanding of the consequences of unauthorized digital	Some	Some	Some	Some		
access	Substantial	Substantial	Substantial	Substantial		
Criterion: Understanding of own personal digital footprint						
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES	
Demonstrates understanding of own	Some	Some	Some	Some		

personal digital footprint, especially in	Substantial	Substantial	Substantial	Substantial			
social media applications							
Criterio	Criterion: Ability to analyze and assess current technology resources						
OBSERVED BEHAVIOR/PERFORMANCE	Indonesia de métro	Occasional	Fugguerant	Custoined	NOTES		
	inaepenaentiy	Occasional	Frequent	Sustained	NOTES		
LEVEL		Assistance	Assistance	Assistance			
Analysis of the capabilities and limitations							
of at least one current or emerging							
technology resources and assessment of							
its potential to address personal, social							
lifelong learning, and career needs							
Analysis of the capabilities and limitations							
of multiple current or emerging technology							
resources and assessment of their							
potential to address personal, social							
lifelong learning, and career needs							

- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - E. Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.

GRADES K-2

• Use digital resources to explore problems and issues

Focus for Instruction:

Giving students repeated and varied opportunities to use digital tools in their learning and playing, making them conscious of how these tools work and what they can do to help accomplish a goal

Standard 8.1 Strand E Rubric 9-12

Note that the distinction in levels of performance for this strand is based only on the degree of independence with which the student uses the internet to explore and investigate questions and topics of interest.

DISTINGUISHED	STRONG	MODERATE	PARTIAL
WITH COMPLETE INDEPENDENCE, THE STUDENT CAN	WITH ONLY OCCASIONAL ASSISTANCE, THE STUDENT CAN	WITH CONSISTENT, FREQUENT, REPEATED ASSISTANCE THE STUDENT CAN	WITH SUBSTANTIAL AND SUSTAINED ASSISTANCE, THE STUDENT CAN
use the Internet to explore and investigate questions [Note connections to Strands A and B]	use the Internet to explore and investigate questions [Note connections to Strands A and B]	use the Internet to explore and investigate questions [Note connections to Strands A and B]	use the Internet to explore and investigate questions [Note connections to Strands A and B]

- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - E. Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.

GRADES 3-5

- Use digital resources to explore problems and issues AND evaluate information sources in terms of
 - Accuracy
 - Relevance
 - Appropriateness for the task

Focus for Instruction:

Giving students repeated opportunities to use digital resources to accomplish their learning tasks, with particular emphasis on using those tools for research and exploration and learning to evaluate digital information

and exploration and loanning to ovaldate	and exploration and learning to evaluate digital information							
	Rubric Standard 8.1E 3-5							
DISTINGUISHED	STRONG	MODERATE	PARTIAL					
WITH COMPLETE INDEPENDENCE, THE STUDENT CAN	WITH ONLY OCCASIONAL ASSISTANCE, THE STUDENT CAN	WITH CONSISTENT, FREQUENT, REPEATED ASSISTANCE THE STUDENT CAN	WITH SUBSTANTIAL AND SUSTAINED ASSISTANCE, THE STUDENT CAN					
 use digital tools to complete subject matter assignments that require research, filtering, and analysis of information match information sources and digital tools to the requirements of a specific task 	 use digital tools to complete subject matter assignments that require research, filtering, and analysis of information match information sources and digital tools to the re- quirements of a specific task 	 <u>usually use</u> digital tools to complete subject matter assignments that require research, filtering, and analysis of information <u>usually</u> match information sources and digital tools to the requirements of a specific task 	 sometimes use digital tools to complete subject matter assignments that require research, filtering, and analysis of information sometimes match information sources and digital tools to the requirements of a specific task 					

		Standard 8	3.1 E 3-5		
Criterion: Use of digital tools	to complete as	signments th	at require res	search, filterii	ng and analysis of information
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Demonstrates the ability to use digital tools to complete assignments that require	Usually	Usually	Usually	Usually	
research, filtering and analysis of information	Always	Always	Always	Always	
Criterion: Ability	to match inforr	nation source	s and digital	tools to requ	irements of a task
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES
Demonstrates ability to match information sources and digital tools to the requirements of a particular task	Usually	Usually	Usually	Usually	
	Always	Always	Always	Always	

- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - E. Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.

GRADES 6-8

- Use a variety of search tools and filters to access multiple data bases (for example, census data, the Bureau of Labor Statistics, the Departments of Education, Agriculture, Health & Human Services) in order to find information relevant to the solution of a real world problem.
- Process the resulting data and create a report of results

Focus for Instruction:

Giving students repeated opportunities to learn to use search tools and filters to access multiple data bases to accomplish subject-specific tasks; requiring students to process data they find using digital tools and create reports of results

Rubric Standard 8.1 E 6-8

Note that the distinction in levels of performance for this strand is based only on the degree of independence with which the student uses search tools and filers and explains, describes or analyzes the resulting data set to create a results report

uses search tools and filers and explains, describes or analyzes the resulting data set to create a results report						
DISTINGUISHED	STRONG	MODERATE	PARTIAL			
WITH COMPLETE INDEPENDENCE, THE STUDENT CAN	WITH ONLY OCCASIONAL ASSISTANCE, THE STUDENT CAN	WITH CONSISTENT, FREQUENT, REPEATED ASSISTANCE THE STUDENT CAN	WITH SUBSTANTIAL AND SUSTAINED ASSISTANCE, THE STUDENT CAN			
 use AT LEAST TWO search tools and filters to locate multiple public, professional databases in order to find information relevant to the solution of a real world problem explain, describe and/or analyze the resulting data set and create a report of the results 	 use AT LEAST TWO search tools and filters to locate multiple public, professional databases in order to find information relevant to the solution of a real world problem explain, describe and/or analyze the resulting data set and create a report of the results 	 use AT LEAST TWO search tools and filters to locate multiple public, professional databases in order to find information relevant to the solution of a real world problem explain, describe and/or analyze the resulting data set and create a report of the results 	 use AT LEAST TWO search tools and filters to locate multiple public, professional databases in order to find information relevant to the solution of a real world problem explain, describe and/or analyze the resulting data set and create a report of the results 			

- 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate to create and communicate knowledge.
 - E. Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.

GRADES 9-12

- Produce a position statement about a real world problem
 - Based on a systematic investigation of the problem
 - AND synthesis of information from multiple sources
- Complete a research project focused on the impact on unethical use of digital tools
- Present the results of the research to peers

Focus for Instruction:

Creating opportunities for students to investigate a real-world problem and requiring them to take a position on it and support it with their research; requiring students to do research on the ethics of digital tool use

Rubric Standard 8.1E 9-12

Note that the distinction in levels of performance for this strand is based only on the degree of independence with which the student uses search tools and filers and explains, describes or analyzes the resulting data set to create a results report

uses search tools and filers and explains, describes or analyzes the resulting data set to create a results report						
DISTINGUISHED	STRONG	MODERATE	PARTIAL			
WITH COMPLETE	WITH ONLY OCCASIONAL	WITH CONSISTENT, FREQUENT,	WITH SUBSTANTIAL AND			
INDEPENDENCE, THE STUDENT	ASSISTANCE, THE STUDENT CAN	REPEATED ASSISTANCE THE	SUSTAINED ASSISTANCE, THE			
CAN		STUDENT CAN	STUDENT CAN			
 participate in the investigation of an issue with peers by locating, organizing and – in some cases— analyzing relevant information present a position statement on the issue to peers demonstrate substantial understanding of the impact of unethical use of digital tools present that perspective to peers 	 participate in the investigation of an issue with peers by locating, organizing and – in some cases—analyzing relevant information present a position statement on the issue to peers demonstrate an understanding of the impact of unethical use of digital tools present that perspective to peers 	 participate in the investigation of an issue with peers by locating, organizing and – in some cases—analyzing relevant information present a position statement on the issue to peers demonstrate a basic understanding of the impact of unethical use of digital tools present that perspective to peers 	 participate in the investigation of an issue with peers by locating, organizing and – in some cases—analyzing relevant information present a position statement on the issue to peers demonstrate a basic understanding of the impact of unethical use of digital tools present that perspective to peers 			

Standard 8.1E 9-12						
Criterion: Participation in the investigation of an issue with peers						
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES	
Participate in the investigation of an issue with peers by locating, organizing and – in some cases—analyzing relevant information						
Criter	ion: Presentation	on of a position	on statement o	n an issue to p	peers	
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES	
Present a position statement on the issue to peers						
Criterion: Demo	nstration of un	derstanding o	f the impact of	f unethical use	of digital tools	
OBSERVED BEHAVIOR/PERFORMANCE LEVEL	Independently	Occasional Assistance	Frequent Assistance	Sustained Assistance	NOTES	
Present to peers a perspective on the use of digital tools that demonstrates understanding of the consequences of unethical use	Basic understanding	Basic understanding	Basic understanding	Basic understanding		
	Substantial understanding	Substantial understanding	Substantial understanding	Substantial understanding		

8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize infor-
mation in order to solve problems individually and collaborate to create and communicate knowledge.

F. Critical thinking, problem solving, and decision making: Students use critical thinking skills to plan and conduct re-						
search, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.						
K-2	3-5	6-8	9-12			
Note that all problems and	Note that all problems and	Note that all problems and	Note that all problems and			
issues engaged by students at	issues engaged by students at	issues engaged by students at	issues engaged by students at			
this level <u>in all strands</u> of	this level <u>in all strands</u> of	this level <u>in all strands</u> of	this level <u>in all strands</u> of			
Standard 8.1 should be	Standard 8.1 should be	Standard 8.1 should be	Standard 8.1 should be			
authentic and should lead to	authentic and should lead to	authentic and should lead to	authentic and should lead to			
significant questions for	significant questions for	significant questions for	significant questions for			
students to investigate and	students to investigate and	students to investigate and	students to investigate and			
attempt to answer.	attempt to answer.	attempt to answer.	attempt to answer.			
See the suggested	See the suggested	See the suggested	See the suggested			
demonstration of student	demonstration of student	demonstration of student	demonstration of student			
learning in Strand A as a	learning in Strand E as a	learning in Strand A as a	learning in Strand D as a			
possible response to the	possible response to the	possible response to the	possible response to the			
"Indicator" in this strand. One	"Indicator" in this strand. The	"Indicator" in this strand.	"Indicator" in this strand.			
of the tools students may learn	topic or problem that will serve					
to use could be a geographical	as the focus of this activity					
mapping application.	could be a scientific inquiry.					